

# Supplementary Materials:

Table S1. Total Dietary Components and Formulations

	D20013102	D20013106
	<i>11 kcal% Fat</i>	<i>46 kcal% Fat</i>
Product #	<i>Control Diet</i>	<i>High-Fat Diet</i>
Ingredient (g)		
Casein	200	200
L-Cystine	3	3
Corn Starch	452.2	72.8
Maltodextrin 10	75	100
Sucrose	175.21	175.21
Cellulose	50	50
Soybean Oil	25	25
Lard	0	0
Beef Fat, Bunge	20	177.5
Mineral Mix S10026 (No Ca, P, K)	0	0
Mineral Mix S10026A (No Ca, P, K, Na, Cl)	5	5
Dicalcium Phosphate	13	13
Calcium Carbonate	5.5	5.5
Potassium Citrate, 1 H <sub>2</sub> O	16.5	16.5
Sodium Chloride	2.546	2.546
Vitamin Mix V10001	10	10
Choline Bitartrate	2	2
Cholesterol	0.6	0.49
Yellow Dye #5, FD&C	0	0
Red Dye #40, FD&C	0.05	0
Blue Dye #1, FD&C	0	0.05
Total	1055.606	845.798
gm		
Protein	179.0	179.0
Carbohydrate	712.4	358.0
Fat	47.4	204.9
Fiber	50.0	50.0
Cholesterol	0.66	0.66
gm%		
Protein	17.0	20.8
Carbohydrate	67.5	41.7
Fat	4.5	23.9
Fiber	4.7	5.8
Cholesterol	0.062	0.08
kcal		
Protein	716.0	716.0
Carbohydrate	2849.6	1432.0

Fat	426.6	1844.1
Total	3992.2	3992.1
<i>kcal%</i>		
Protein	18	18
Carbohydrate	71	36
Fat	11	46
Total	100	100
<i>kcal/gm</i>		
Linoleic Acid, gm/kg Diet (NRC Requirement is 6.8)	12.9	21.9
Arginine, gm/kg Diet (NRC Requirement is 3.0)	5.6	6.9
Histidine, gm/kg Diet (NRC Requirement is 2.0)	4.3	5.2
Isoleucine, gm/kg Diet (NRC Requirement is 4.0)	7.1	8.7
Leucine, gm/kg Diet (NRC Requirement is 7.0)	14.9	18.3
Valine, gm/kg Diet (NRC Requirement is 5.0)	8.7	10.7
Threonine, gm/kg Diet (NRC Requirement is 4.0)	6.7	8.3
Lysine, gm/kg Diet (NRC Requirement is 4.0)	12.3	15.1
Methionine, gm/kg Diet (NRC Requirement is 5.0; half can be Cystine)	4.7	5.8
Cystine, gm/kg Diet (NRC Requirement is - see above)	3.0	3.6
Phenylalanine, gm/kg Diet (NRC Requirement is 7.6; half can be Tyrosine)	7.9	9.7
Tyrosine, gm/kg Diet (NRC Requirement is - see above)	8.5	10.5
Tryptophan, gm/kg Diet (NRC Requirement is 1.0)	2.0	2.4
Sodium (mg/kg diet)	979	1203
Sodium (mg/3982.5 kcal)	1033	1033

**Table S2.** Food consumed per week per mouse.

		<b>CC</b>	<b>HFC</b>
<b>Male</b>	Average Food Consumed (g)	20.4	21.0
	SE	0.40	0.28
<b>Female</b>	Average Food Consumed (g)	18.0	16.6
	SE (+/-)	0.40	0.35